

# **OIL ANALYSIS REPORT**



## **NORMAL**



RIG 8 R8-G-002

Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 40 (--- GAL)** 

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION	method	li	mit/ba	se	cui	rrent		hi
	Mar2021	Jun2021	Mar2022	May2022	Sep 2022	Dec2022	Mar2023	
								-
SIS REPORT								

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	days	Client Info Client Info Client Info Client Info Client Info		KL0012470 19 May 2023 45063 0 N/A NORMAL	KL0009772 27 Mar 2023 45007 0 N/A NORMAL	KLM2341010 18 Feb 2023 44970 0 N/A ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	11	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	3	2
Lead	ppm	ASTM D5185m	>40	4	3	2
Copper	ppm	ASTM D5185m	>330	27	30	20
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	202	264	260
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	105	114	97
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	658	651	535
Calcium	ppm	ASTM D5185m	3000	1488	1603	1495
Phosphorus	ppm	ASTM D5185m	1150	754	747	606
Zinc	ppm	ASTM D5185m	1350	894	936	766
Sulfur	ppm	ASTM D5185m	4250	3480	3657	3470
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	7
Sodium	ppm	ASTM D5185m	>216	2	2	13
Potassium	ppm	ASTM D5185m	>20	1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	7.8	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	21.7	23.5



## OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: KL0012470

. 05864496 : 10498961

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05 Jun 2023 Received Diagnosed : 06 Jun 2023 : Wes Davis Diagnostician

Test Package : MOB 2 ( Additional Tests: PrtCount ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) MCVAY DRILLING

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